AP EasyPower User Manual

Version 1.4.2

APsystems EMEA
Karspeldreef 8, 1101 CJ
Amsterdam
Phone: +31 (0)85 3018499
Email: info.emea@APsystems.com
emea.APsystems.com

APsystems France
22 avenue Lionel Terray
69330 Jonage
France
Phone: 031-10-2582670
Email: info.emea@APsystems.com
emea.APsystems.com

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Introduction

AP EasyPower is a smart home energy management tool for DIY Users to control the WiFi integrated EZ Series products, provides local and remote management services for devices.

- Plug-and-Play, fast installation and wiring
- Direct connecting with Bluetooth
- Real-time monitoring
- Online diagnosis & maintenance

1. Install and Use AP EasyPower

1.1 Install

iOS:

- Go to App Store
- Search “AP EasyPower”
- Download and install

Note

iOS 13.1 and up

Android:

- Go to Google Play Store
- Search “AP EasyPower”
- Download and install

Note

Android 7.0 and up

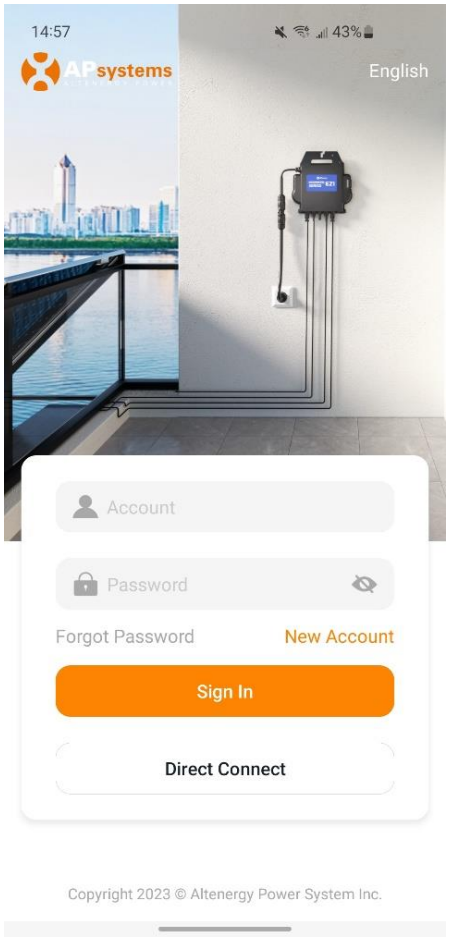
1. Install and Use AP EasyPower

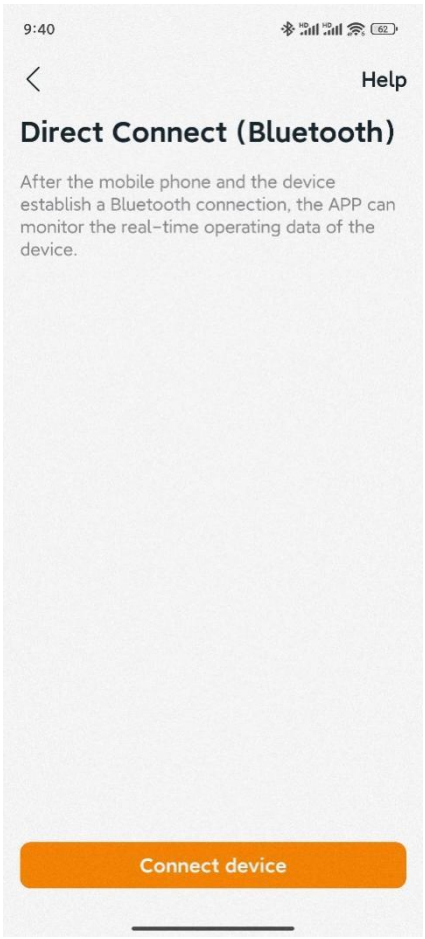
1.2 Direct Connect Mode

➢ Click “Direct Connect”.

A guiding page is displayed.

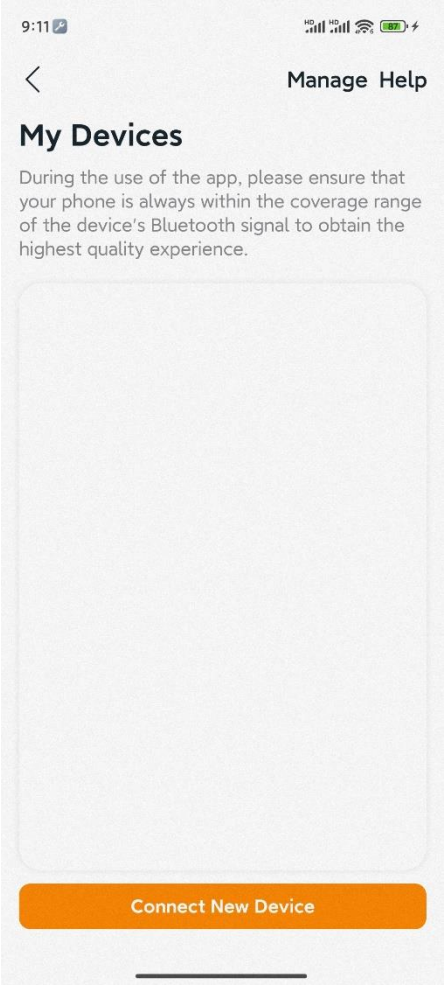
➢ Click “Start”.





1. Install and Use AP EasyPower

Once you have directly connected a device, the next time you click “Direct Connect”, a device page will be displayed, including the devices directly connected before and the Bluetooth’s signal of each device. You can click the device to connect exist devices easily, and click “Connect New Device” to connect a new one.



Note

- When connecting, please ensure that the device is running and keep the phone's Bluetooth turned on
- If the distance between the phone and the device is too far or there are obstacles, which may cause connection failure, please try to keep the phone close enough to the device.

1. Install and Use AP EasyPower

1.3 Remote Mode

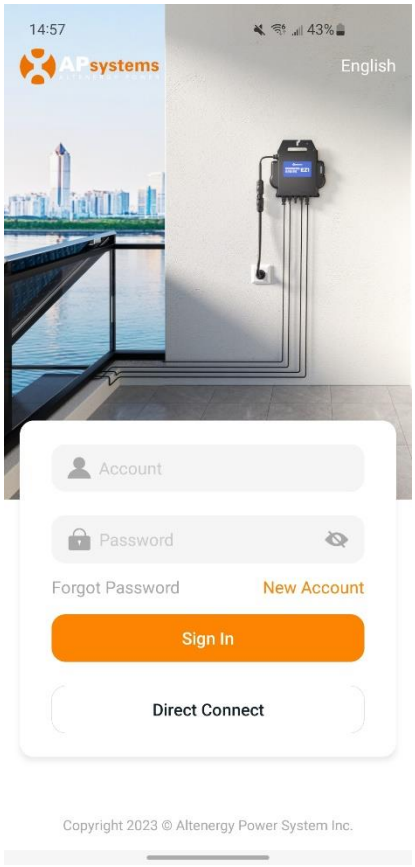
➢ Enter your “Account” and “Password”.

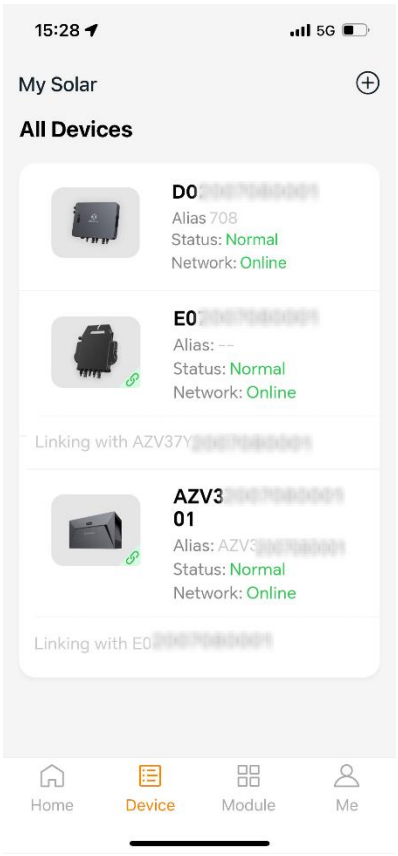
Note

Use Account and Password. The Password is case sensitive.

➢ Press the “Sign in” button.

On the home page, a list of your installed device is displayed





Note

- If no installation is registered, the list will be empty.
- If you need to switch the language, click the “English” at the upper right corner and select language of your choice.

2. Connect (Direct Connect Mode)

There are two (2) steps involved in connecting a new device for Direct Connect.

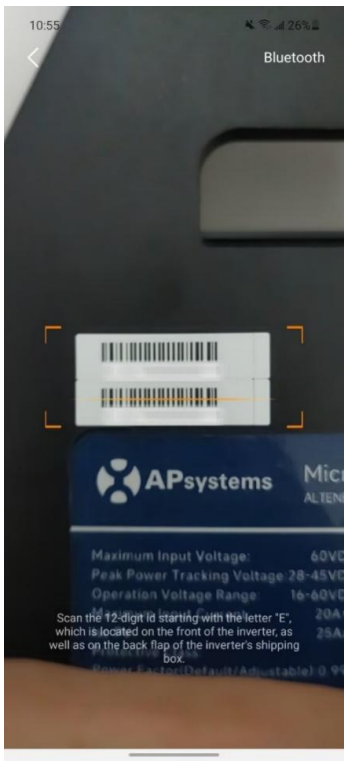
Step 1: Connect the device
Step 2: Select the Wi-Fi (Optional)

2.1 Step 1, Connect the device

There are two (2) methods to connect a device.
Method 1: [***Scan***], Scan the device's barcode or QR code to connect.
Method 2: [***Bluetooth***], select the device in Bluetooth searching list to connect.

2.1.1 Method 1, [*Scan*] – Recommended

On the scanning page, a scan box is displayed. Scan the device ID to connect.



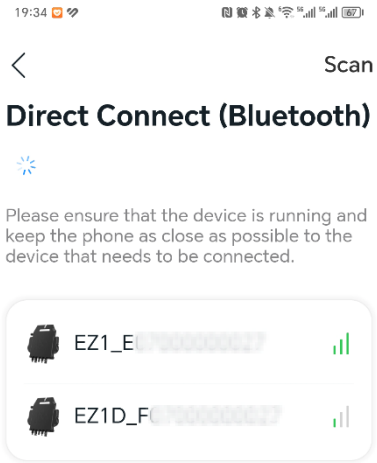
Note

Each device has a unique ID which is located on the front of the device, as well as on the back flap of the device's shipping box.

2. Connect (Direct Connect Mode)

2.1.2 Method 2, [*Bluetooth*]

On the Bluetooth page, a device list is displayed. Select the device to connect.



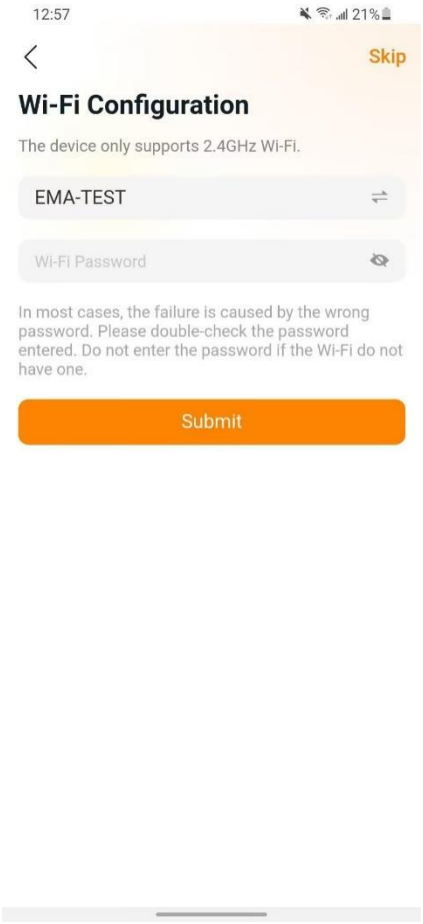
Note

The Bluetooth alias of the device has with the same ending serial number of the device ID.

2. Connect (Direct Connect Mode)

2.2 Step 2, Select the Wi-Fi (Optional)

- Select the Wi-Fi to connect, and the device can get the remote services.



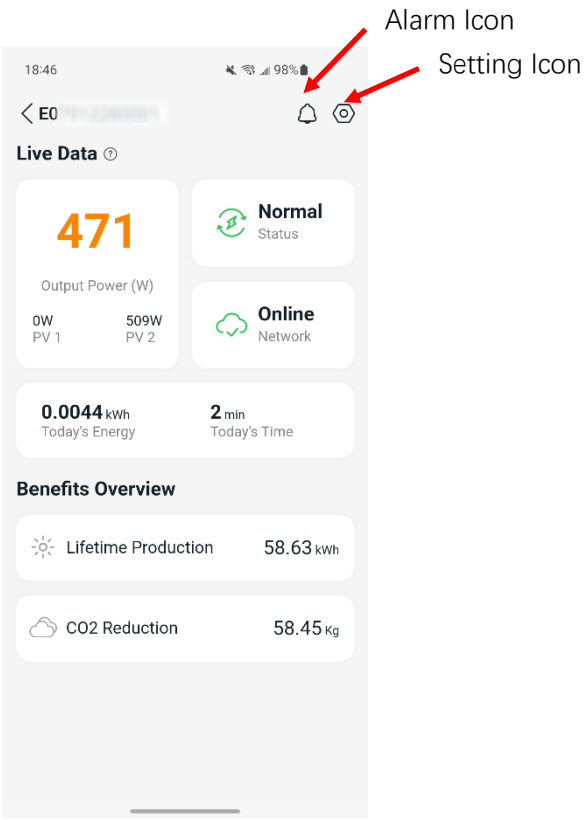
Note

- If the directly connected device is River1600, there are no Wi-Fi configuration steps during the connection process.
- If the device currently cannot set up the Wi-Fi, you can skip it and set it up in the future on the settings page. It is recommended to connect to the Wi-Fi to obtain remote services and register account to get warranty services. (Please refer to the warranty terms on alternergytrading.com).

3. Monitor & Control (*Direct Connect Mode*)

3.1 Monitor & Control – EZ1

3.1.1 Main (Direct Connect Mode)



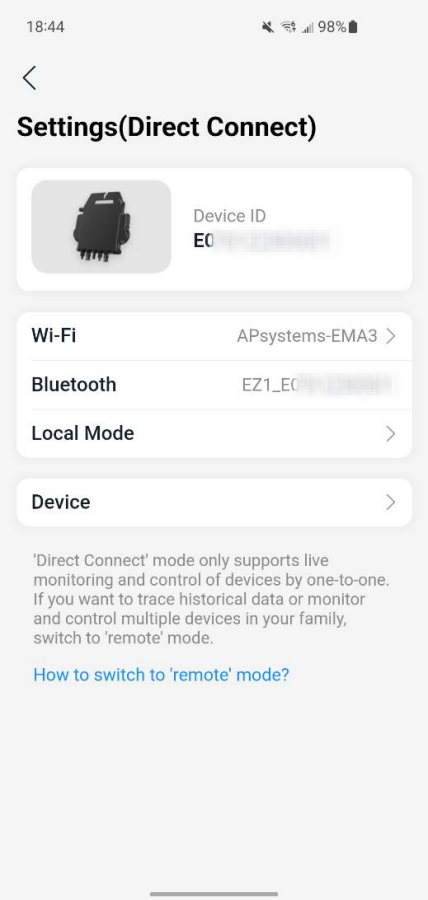
On this page, user can visualize

- **Live Data**: The real-time data of the device in current round, including the output power, energy, running time, working status and the cloud status.
- Working status
  Normal: The device is working normally.
  Alarm: The device has alarms and you need to check it.
- Network status
  Online: The device is connecting the cloud service through the internet.
  Offline: The device is not connecting the cloud service through the internet, maybe the device is not connected the Wi-Fi or the router is down.
- **Ecological benefits**: The lifetime energy produced by the device and the equivalent CO2 reduction.

By pressing "***alarm icon***" to check the alarm information if the device status is alarm.
By pressing "***setting icon***" to set the device. The setting page is shown below.

3. Monitor & Control (*Direct Connect Mode*)

3.1.2 Settings (Direct Connect Mode)



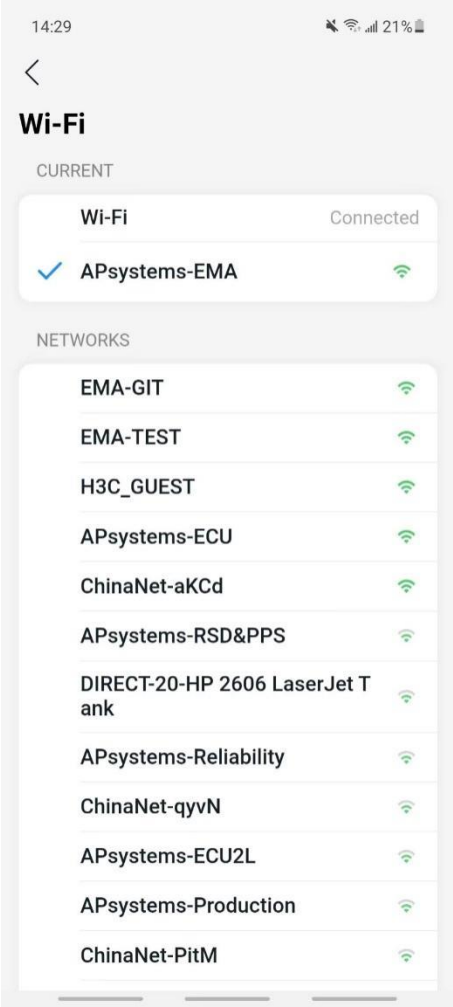
On the setting page, user can visualize

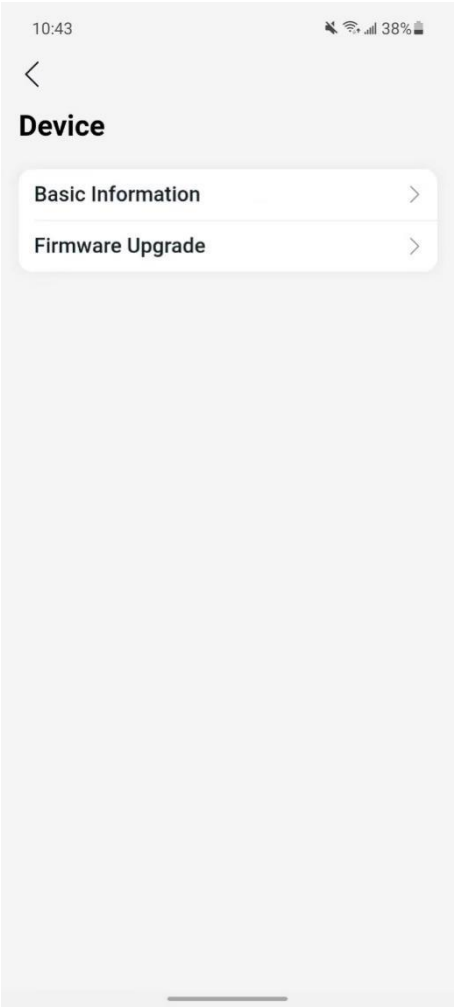
- **Device ID**: The serial ID of the device
- **Wi-Fi**: The Wi-Fi Name device connected. If the device does not connect the Wi-Fi, it will show “Not Connected”. Click it to enter the Set Wi-Fi page to switch Wi-Fi.
- **Bluetooth**: The Bluetooth name of the device
- **Local Mode:** The other devices within the same LAN can communicate with the device via Local APl in the same LAN, can read and control the device.
- **Device**: The details information and operations of the device, user can get the serial ID and mac address, upgrade the software.

Note

Click “How to switch to ‘remote’ mode” if you want to register an account and monitor your device wherever you are.

3. Monitor & Control (*Direct Connect Mode*)

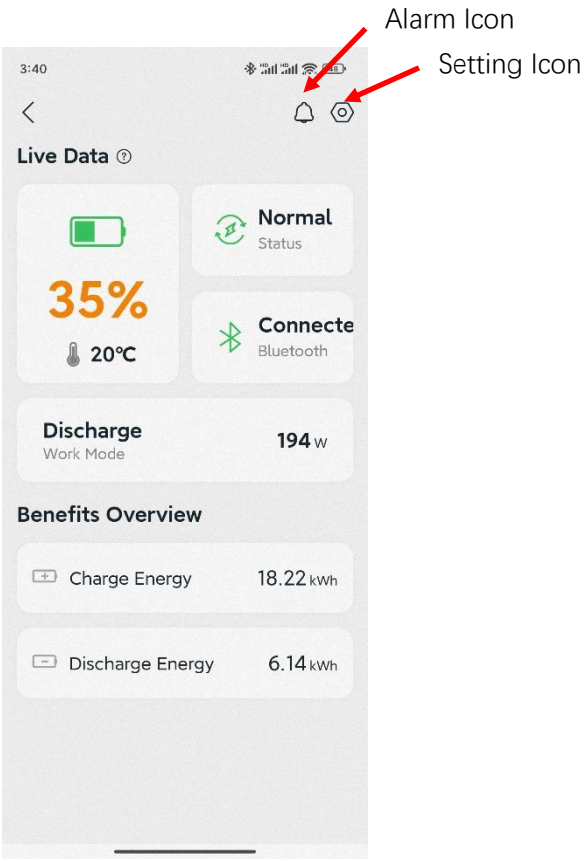




3. Monitor & Control (*Direct Connect Mode*)

3.2 Monitor & Control – River1600

3.2.1 Main (Direct Connect Mode)



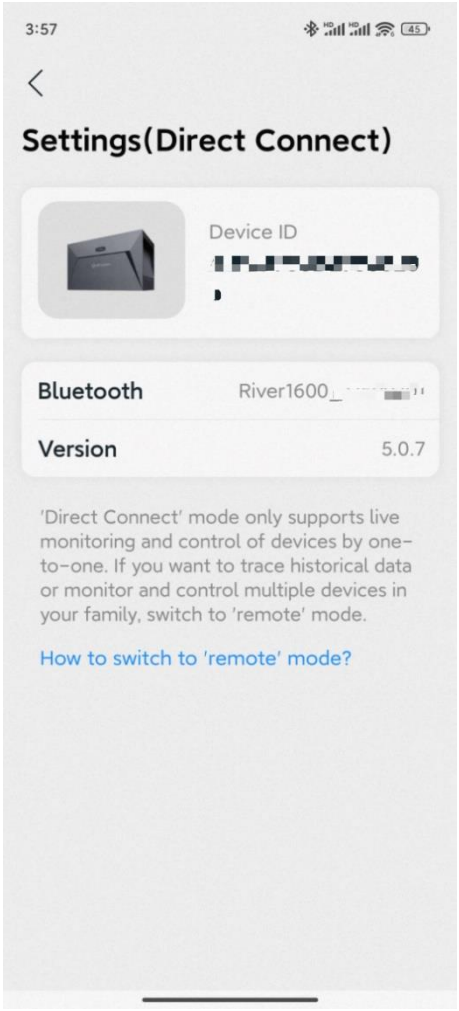
On this page, user can visualize

- **Live Data**: The real-time data of the device in current round, including the SOC, temperature, work mode, power, working status and the Bluetooth status.
- Working status
  Normal: The device is working normally.
  Alarm: The device has alarms and you need to check it.
- Bluetooth status
  Connected: Connect to the current device's Bluetooth.
  Disconnected: Disconnect to the current device's Bluetooth.
- **Benefits Overview**: The lifetime charge Energy and discharge energy by the device.

By pressing "***alarm icon***" to check the alarm information if the device status is alarm.
By pressing "***setting icon***" to set the device. The setting page is shown below.

3. Monitor & Control (*Direct Connect Mode*)

3.2.2 Settings (Direct Connect Mode)



On the setting page, user can visualize

- **Device ID**: The serial ID of the device.
- **Bluetooth**: The Bluetooth name of the device.
- **Version**: The version of the device.

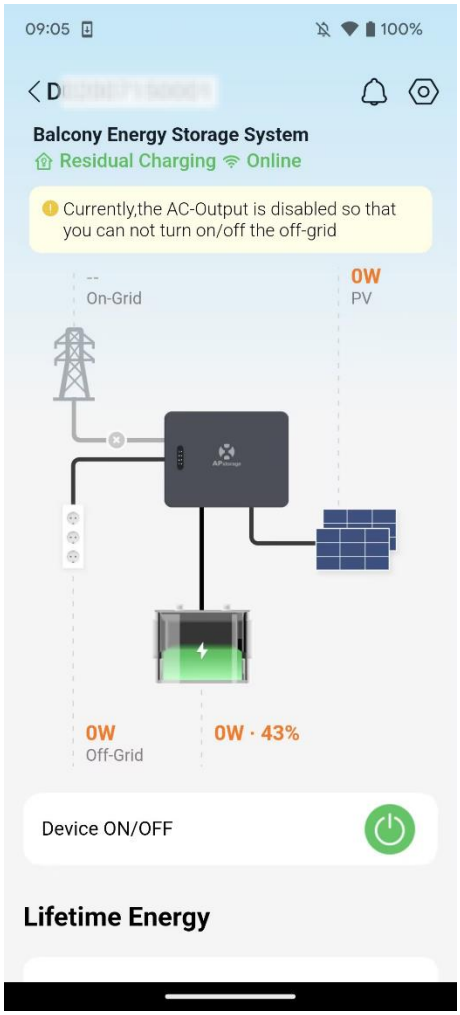
Note

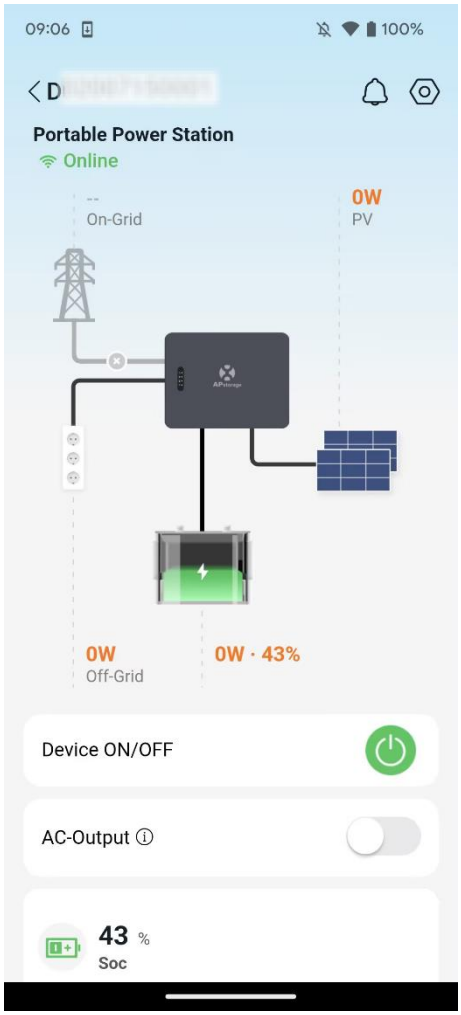
Click “How to switch to ‘remote’ mode” if you want to register an account and monitor your device wherever you are.

3. Monitor & Control (*Direct Connect Mode*)

3.3 Monitor & Control – EZHI

3.2.1 Main (Direct Connect Mode)





On this page, user can visualize

- **Live Data**: The real-time data of the device, including the input/output power according to the PV side, battery side, on-grid side and off-grid side.
- **Work Status:** The status of the device according to the light on it.
- **Lifetime Energy Overview**: The lifetime energy for the production side, consumption side and battery side.

By pressing "***alarm icon***" to check the alarm information if the device status is alarm.

By pressing "***setting icon***" to set the device. The setting page is shown below.

3. Monitor & Control (*Direct Connect Mode*)


Running Status

Green light: Normal
Green light slow flashing: Device is starting up and checking status by itself.
Green light fast flashing: Device is in idle.
Red light: Error
Red light fast flashing: The off-grid of the device is overload.
Grey light: Device is off.


Off-grid Status

Green light: Off-grid output is normal.
Green light fast flashing: The on-grid of the device is disconnected to the grid, off-grid output is normal.
Grey light: Off-grid output is off.


Battery Status

Green light: The battery is charging.
Green light slow flashing: The battery is discharging
Green light fast flashing: The SOC of the battery is low.
Grey light: The battery is disconnected to the EZHI.


Network Status

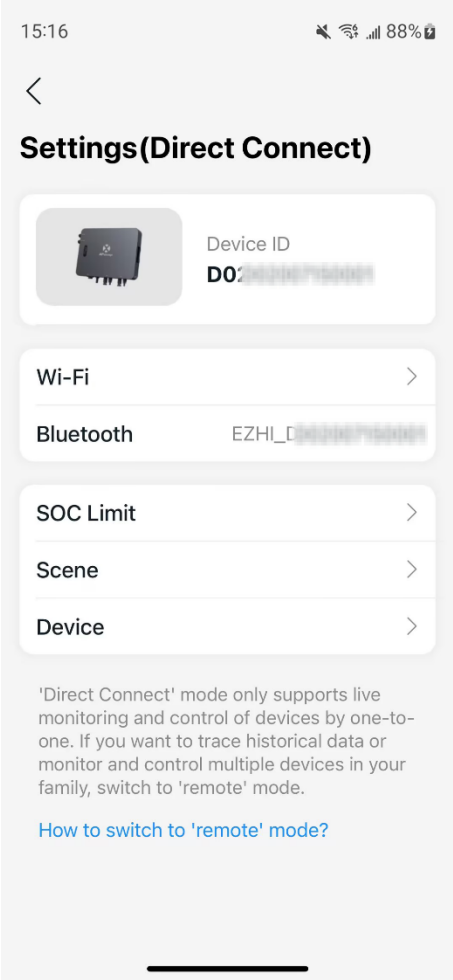
Green light: The device succeeds to connect to the Wi-Fi.
Green light fast flashing: The device is resetting the Wi-Fi connection.
Grey light: The device fails to connect to the Wi-Fi.

- **Lifetime Energy Overview**: The lifetime energy for the production side, consumption side and battery side.

By pressing "***alarm icon***" to check the alarm information if the device status is alarm.
By pressing "***setting icon***" to set the device. The setting page is shown below.

3. Monitor & Control (*Direct Connect Mode*)

3.2.2 Settings (Direct Connect Mode)



On the setting page, user can visualize

- **Device ID**: The serial ID of the device.
- **Wi-Fi:** View or switch the network of the device.
- **Bluetooth**: The Bluetooth name of the device.
- **SOC Limitations**: Set the maximum SOC and minimum SOC.
- **Scene:** Switch the scene and set the corresponding work mode.
- **Device**: The details information and operations of the device, user can get the serial ID and mac address, upgrade the software.

Note

Click “How to switch to ‘remote’ mode” if you want to register an account and monitor your device wherever you are.

4. Register (*Remote Mode*)

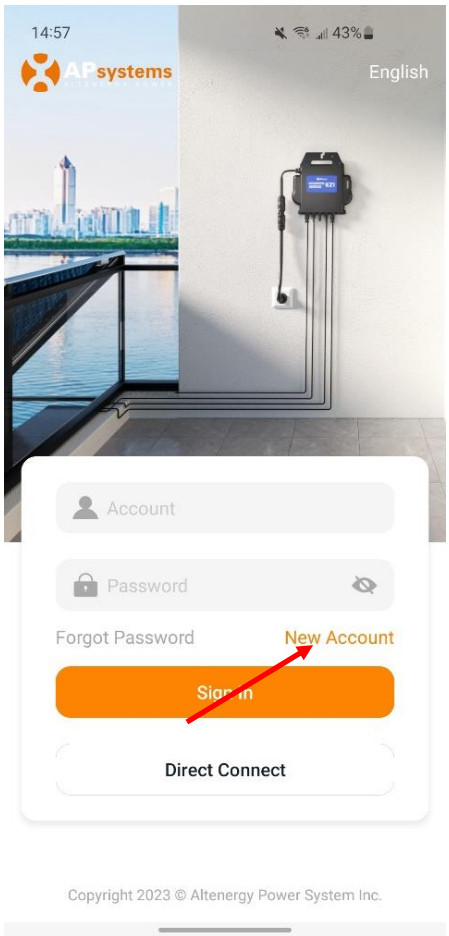
There are two (2) major steps involved in adding a new installation (registering) in the AP EasyPower. All the following introductions take the customer as an example.

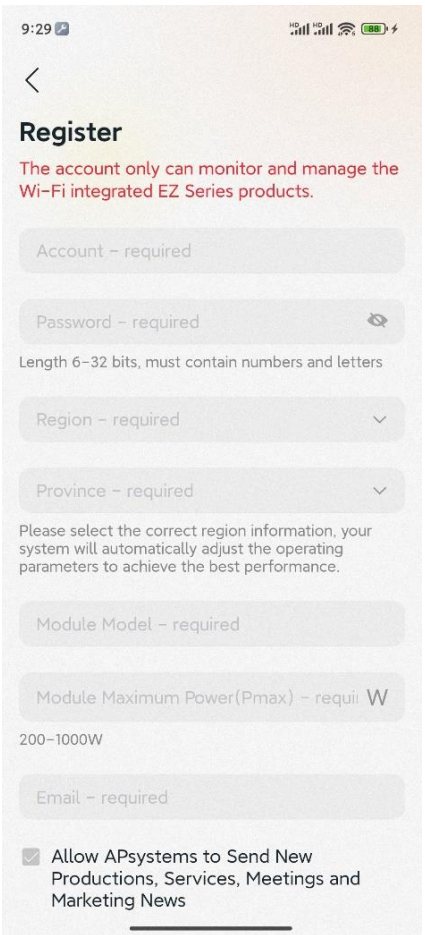
Step 1: Register Account - Entering the user's personal information.
Step 2: Link Device - Configuring the device information.

4.1 Step1, Register Account

➢ Click "New Account"

A check list of information is displayed. Fill in all the information and get your own account.



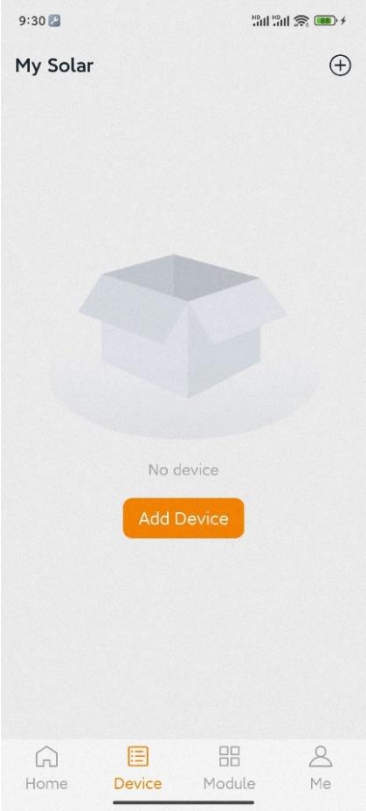


4. Register (*Remote Mode*)

4.2 Step2, Link Device

- Enter your “Account” and “Password”.
- Press the “Sign in” button.

Go to the Device page, an empty list is displayed.



Click “Add Button” or “Add Icon” to enter the device binding process.

There are five (2) major steps involved in binding a new device (registering) for an account. All the following introductions take the customer as an example.

Step 1: Connect the device
Step 2: Select the Wi-Fi

Currently, you are able to link **2** devices to your account, just repeat the linking device operations until linking all your devices.

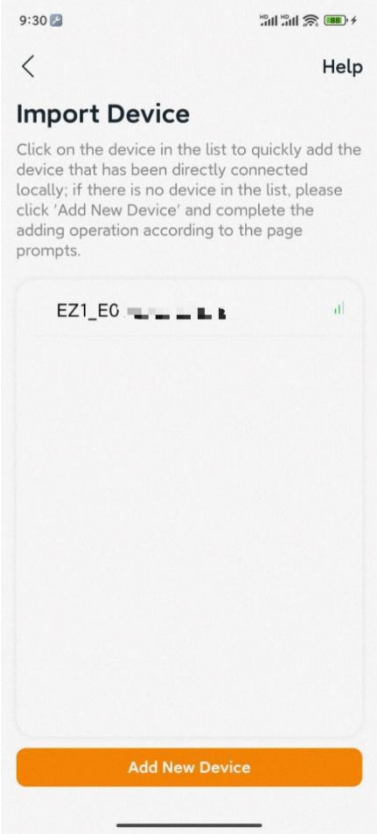
4. Register (*Remote Mode*)

4.2.1 Step1, Connect the device

There are three (3) methods to connect a device.
Method 1: [***Import***], import the device direct connected before.
Method 2: [***Scan***], scan the bar code of the inverter id to connect.
Method 3: [***Bluetooth***], select the device in Bluetooth searching list to connect.

4.2.1.1 Method 1, [Import]

On the device page, a device list which direct connected before but without registration is displayed. Select the device to bind.



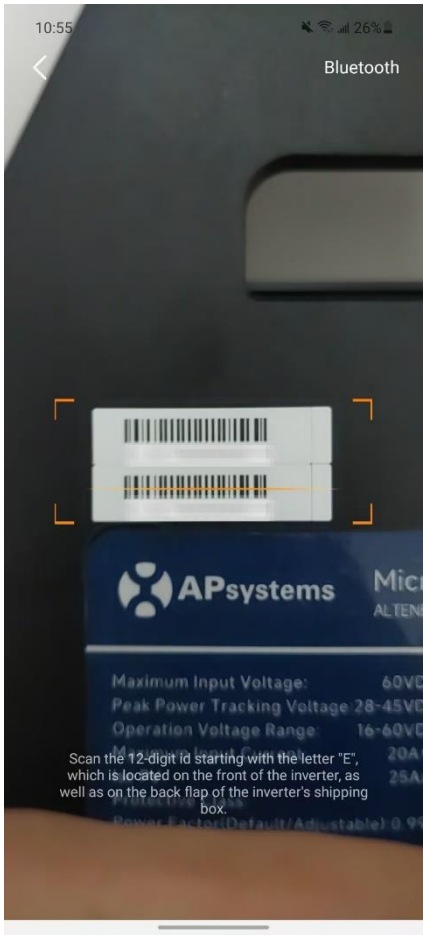
Note

Click “Add New Device” to switch to [***Scan***] mode.

4. Register (*Remote Mode*)

4.2.1.2 Method 2, [Scan]

On the scanning page, a scan box is displayed. Scan the inverter ID to connect.



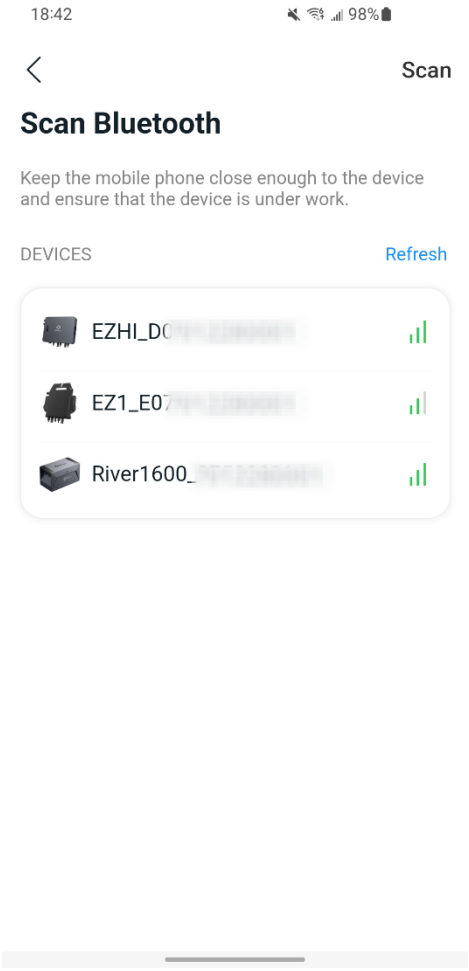
Note

- Each device has a unique ID (length: 12) which is located on the front of the device, as well as on the back flap of the device's shipping box.
- Click the button "***Bluetooth***" at the upper right corner to switch to "Bluetooth" mode.

4. Register (*Remote Mode*)

4.2.1.3 Method 3, [*Bluetooth*]

On the Bluetooth page, a device list is displayed. Select the device to connect.



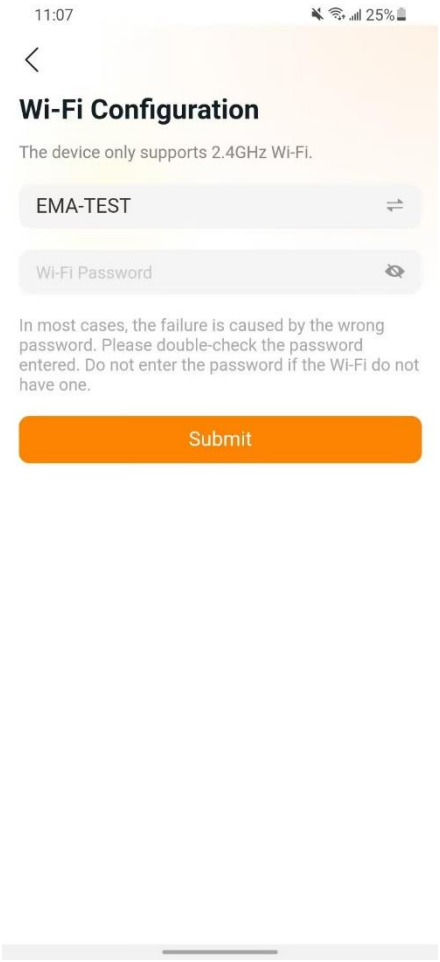
Note

The Bluetooth alias of the device has with the same ending serial number of the inverter ID.

4. Register (*Remote Mode*)

4.2.2 Step2, Set the Wi-Fi

Select the Wi-Fi to connect, and the device can get the remote services.



Note

In most cases, the failure is caused by the wrong password. Please double-check the password entered. Do not enter the password if the Wi-Fi do not have one.

5. Monitor & Control (*Remote Mode*)

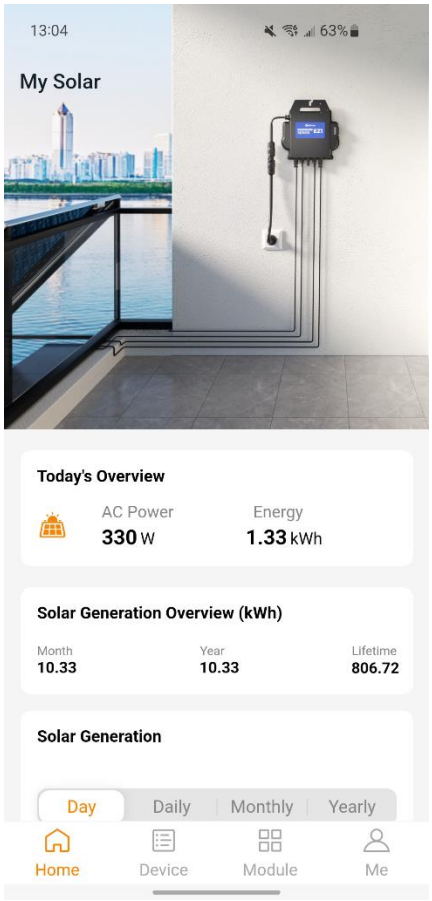
5.1 Monitor & Control (Station Level)

5.1.1 Home (Remote Mode)

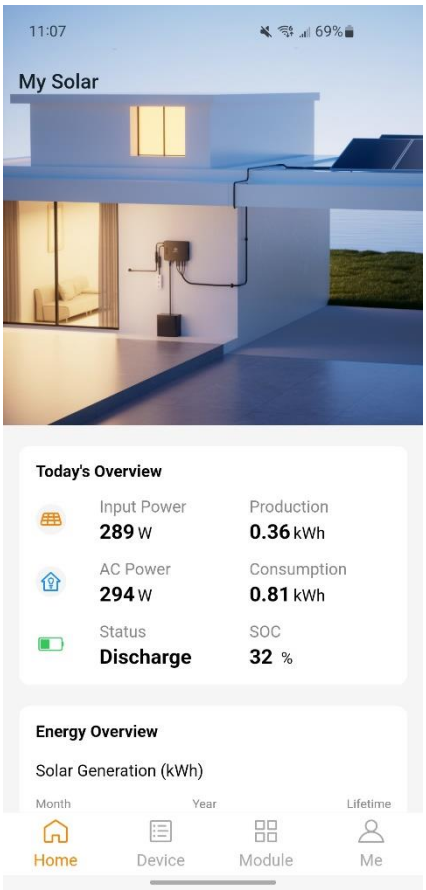
Displays the operation status of the power station, power generation data and environmental benefits generated by the operation of the power station.

- Click the "Sun" or "Battery" icon to switch data types,
- Switch "Day", "Daily", "Monthly", "Yearly" and date to view the historical power data of the power station in different time dimensions,

Home 1, only the EZ1 device is installed



Home 2, EZ1 and battery devices are installed

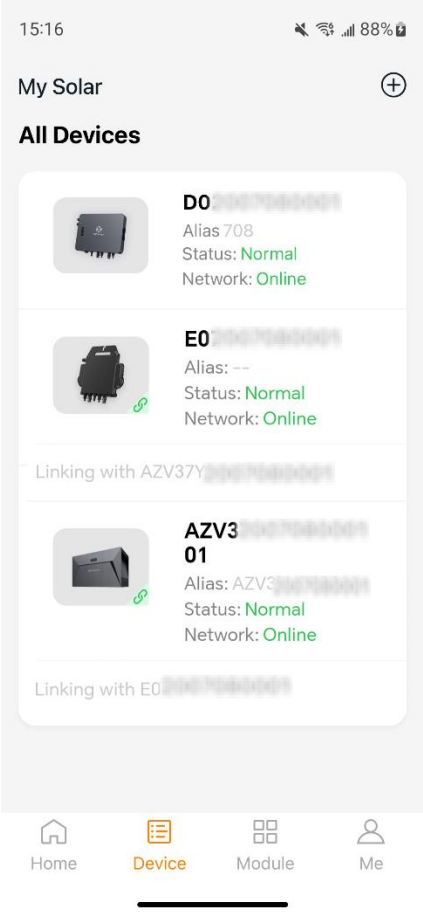


5. Monitor & Control (*Remote Mode*)

5.1.2 Device (Remote Mode)

Device list shows the equipment installed in the power station and the correlation between the equipment.

- Click "Device" to enter the list to view the equipment installed in the power station.
- Click the device information card in the list to view detailed information about the corresponding device.

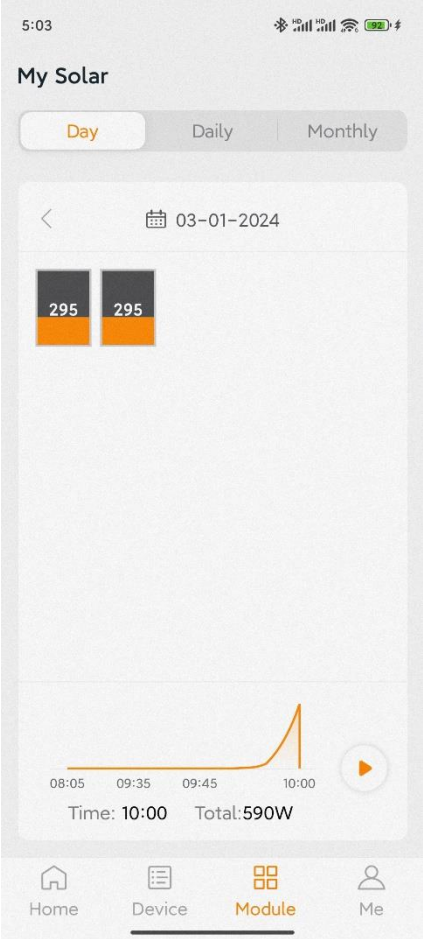


5. Monitor & Control (*Remote Mode*)

5.1.3 Module (Remote Mode)

View the running status of modules,

- Click on any module to view module information,

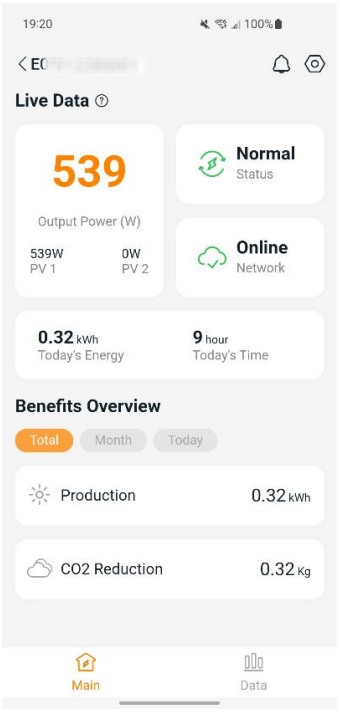


5. Monitor & Control (*Remote Mode*)

5.2 Monitor & Control (Device Level)

5.2.1 EZ1 Device

5.2.1.1 Main (Remote Mode)



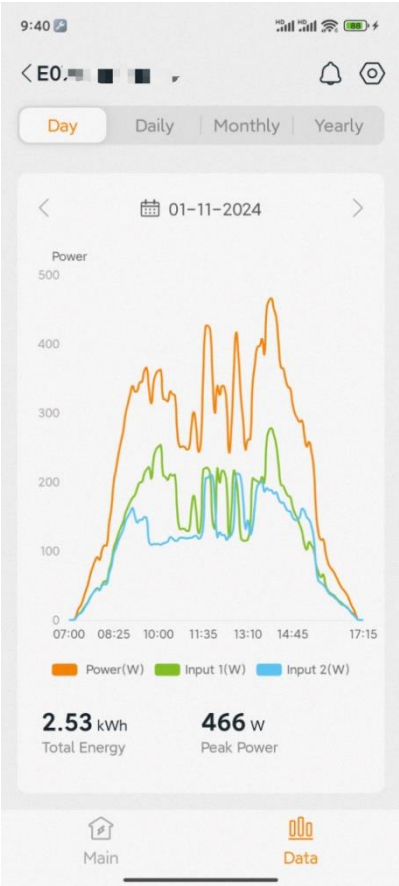
On the main page, user can visualize

- **Live Data**: The real-time data of the device in current round, including the power, energy, running time, working status and the cloud status.
- Working status
  Normal: The device is working normally.
  Alarm: The device has alarms and you need to check it.
- Network status
  Online: The device is connecting the cloud service through the internet.
  Offline: The device is not connecting the cloud service through the internet, maybe the device is not connected the Wi-Fi or the router is down.
- **Benefits Overview:** The energy produced by the device and the equivalent CO2 reduction. User can switch the "Total", "Month", "Today" to get the accumulated data for each period.

By pressing "***alarm icon***" to check the alarm information if the device status is alarm.
By pressing "***setting icon***" to set the device.

5. Monitor & Control (*Remote Mode*)

5.2.1.2 Data (Remote Mode)

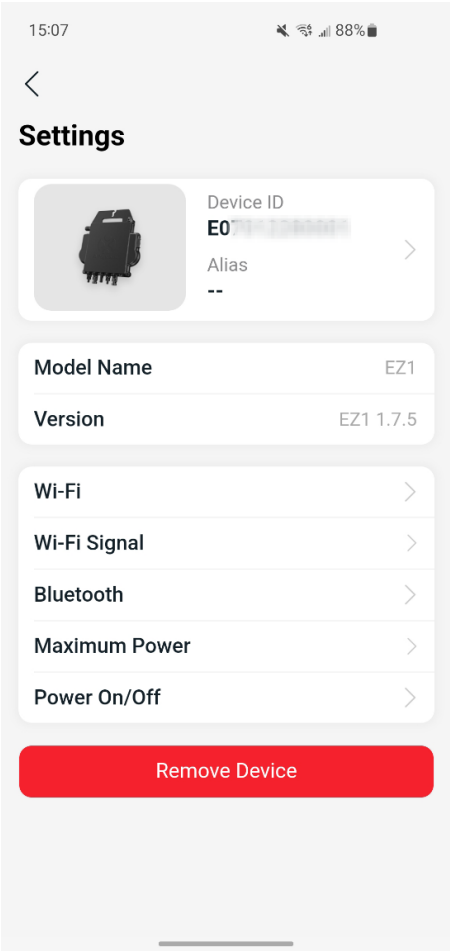


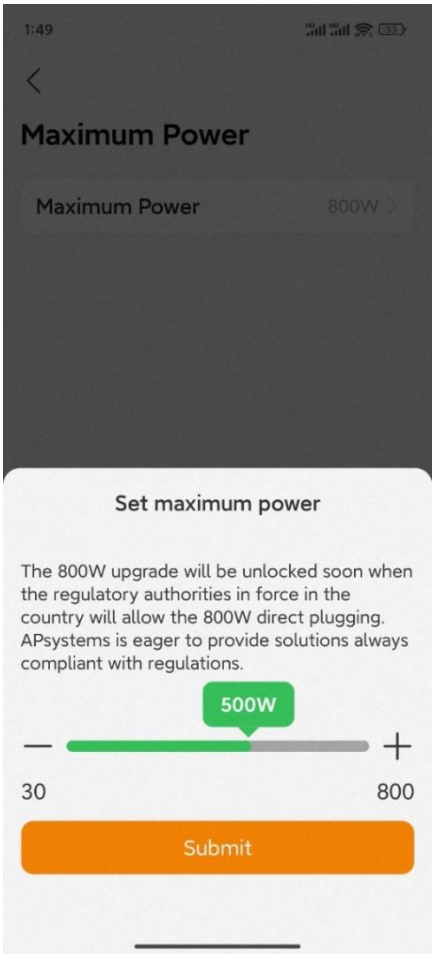
In this page, you can view the detailed data on **single device** level:

- Per minute
- Per day
- Per month
- Per year

5. Monitor & Control (*Remote Mode*)

5.2.1.3 Settings (*Remote Mode*)





On the setting page, user can visualize

- **Device Card**: Show the serial ID and alias, click it to edit the alias.
- **Model Name**: The device model type name.
- **Version:** Display the device version.
- **Wi-Fi**: Used to reset the Wi-Fi via Bluetooth.
- **Wi-Fi Signal**: Used to detect Wi-Fi signal strength.
- **Bluetooth**: Lock the Bluetooth of the device for security.
- **Maximum Power**: You can view the current maximum power and click to set it. Drag the slider to set the maximum power, between 30W-800W. You can also click the "+" and "-" buttons to adjust, and click "OK" to send it to the device.
- **Power On/Off:** The device status is displayed and the device can be switched on and off by remote control.

5. Monitor & Control (*Remote Mode*)

5.2.2 River1600 Device

5.2.2.1 Main (Remote Mode)

On the main page, user can visualize

- **Live Data**: The real-time data of the device in current round, including the SOC, temperature, work mode, power, working status and the Bluetooth status.
- Working status
  Normal: The device is working normally.
  Alarm: The device has alarms and you need to check it.
- Network status
  Online: The device is connecting the cloud service through the internet.
  Offline: The device is not connecting the cloud service through the internet, maybe the device is not connected the Wi-Fi or the router is down.
- **Benefits Overview:** The lifetime charge Energy and discharge energy by the device. User can switch the "Total", "Month", "Today" to get the accumulated data for each period.

By pressing "***alarm icon***" to check the alarm information if the device status is alarm.
By pressing "***setting icon***" to set the device.

Note

River1600 battery device needs to be bound to EZ1 device to view detailed monitoring data

5. Monitor & Control (*Remote Mode*)

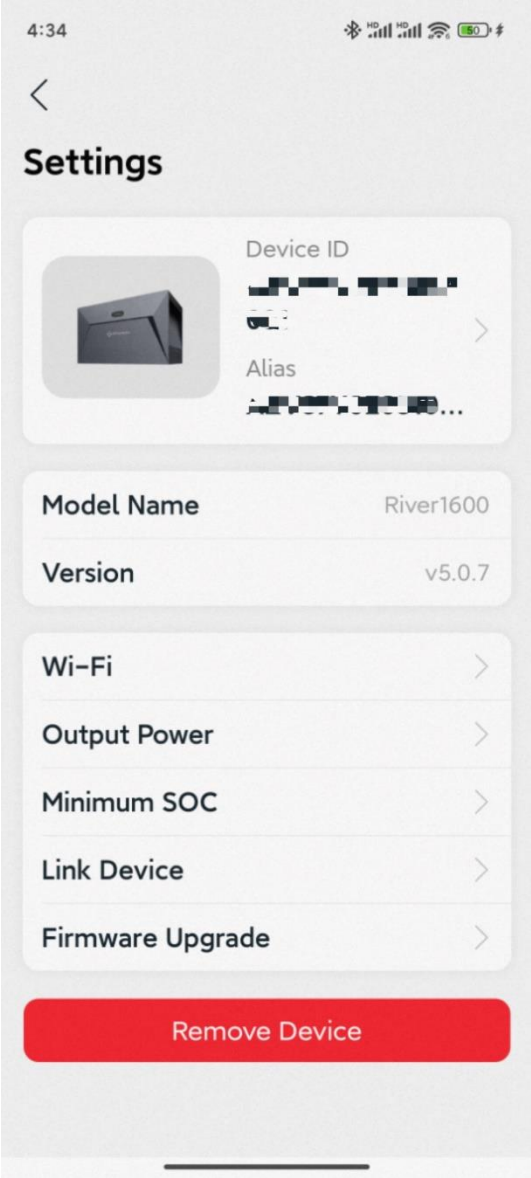
5.2.2.2 Data (Remote Mode)

In this page, you can view the detailed data on **single device** level:

- Per minute
- Per day
- Per month
- Per year

5. Monitor & Control (*Remote Mode*)

5.2.2.3 Settings (Remote Mode)



On the setting page, user can visualize

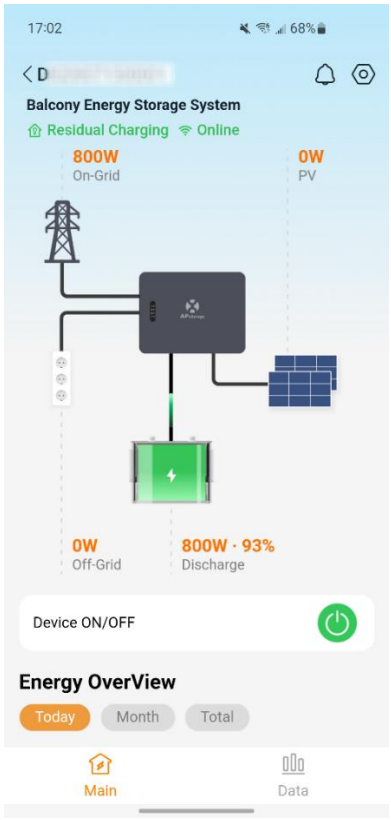
- **Device Card**: Show the serial ID and alias, click it to edit the alias.
- **Model Name**: The device model type name.
- **Wi-Fi**: View or switch the network of the device.
- **Output Power**: Set the output power of the device.
- **Minimum SOC**: Set the minimum value for battery device discharge.
- **Link Device**: Shows the binding status between devices.
- **Firmware Upgrade**: Show and upgrade the firmware version in the device.

5. Monitor & Control (*Remote Mode*)

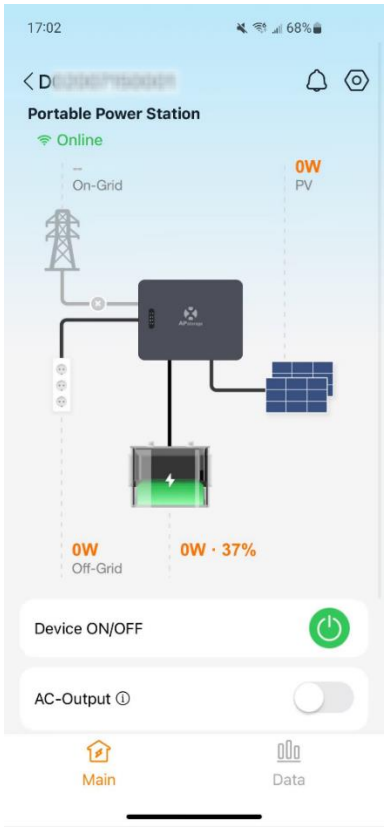
5.2.3 EZHI Device

5.2.3.1 Main (Remote Mode)

Scene: Balcony Energy Storage System



Scene: Portable Power Station



On this page, user can visualize

- **Live Data**: The real-time data of the device, including the input/output power according to the PV side, battery side, on-grid side and off-grid side, work mode and scene.
- **Device ON/OFF**: Device can be turned on or off.
- **Energy Overview**: The energy for the production side, consumption side and battery side. User can switch the "Total", "Month", "Today" to get the accumulated data for each period.

By pressing "***alarm icon***" to check the alarm information if the device status is alarm.

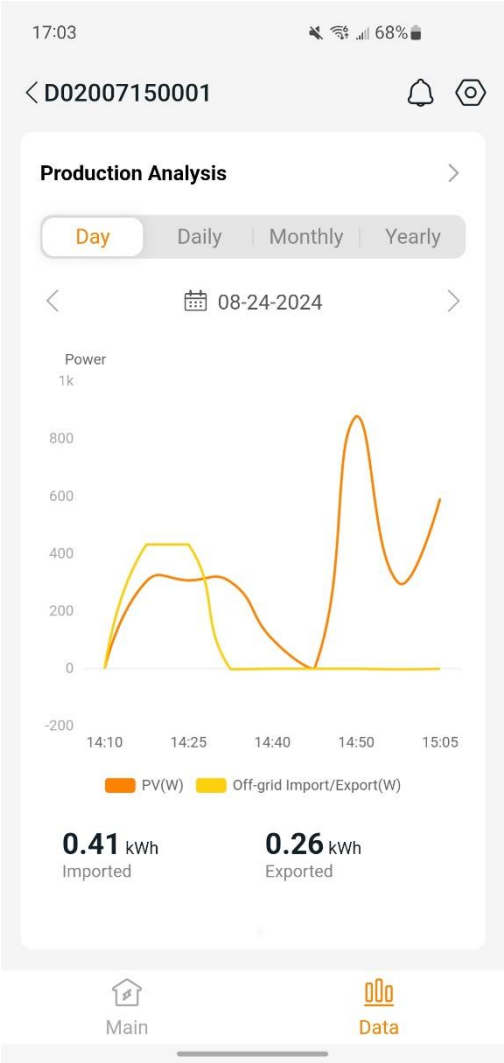
By pressing "***setting icon***" to set the device. The setting page is shown below.

Note

Refer to section 3.2.1 Main (Direct Connect Mode) for the description of the setup indicator.

5. Monitor & Control (*Remote Mode*)

5.2.3.2 Data (Remote Mode)



In this page, you can view the detailed data on **single device** level:

- Per minute
- Per day
- Per month
- Per year

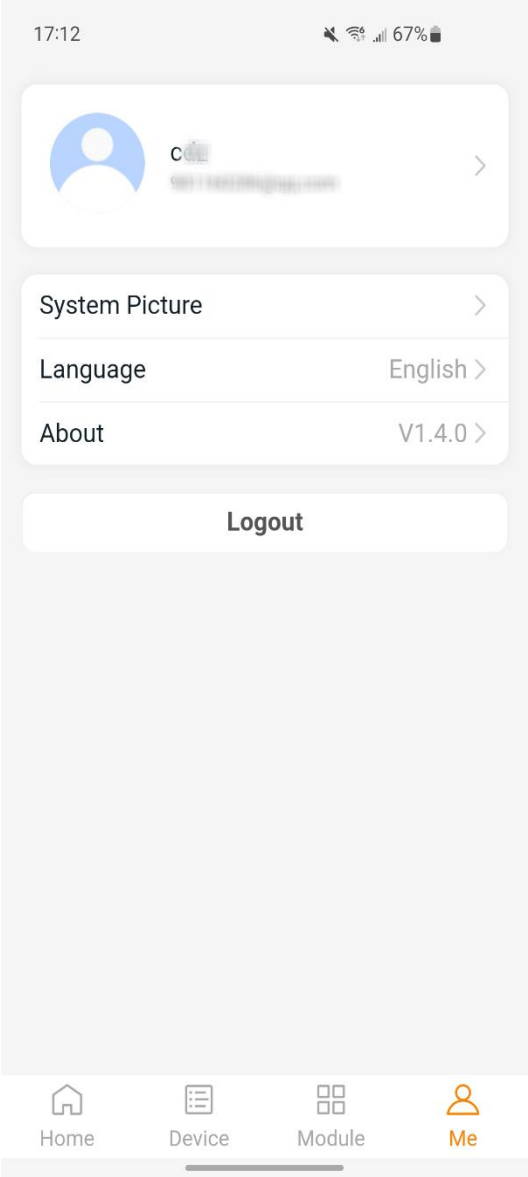
5. Monitor & Control (*Remote Mode*)

5.2.3.3 Settings (Remote Mode)

On the setting page, user can visualize

- **Device Card**: Show the serial ID and alias, click it to edit the alias.
- **Model Name**: The device model type name.
- **Wi-Fi**: Used to reset the Wi-Fi via Bluetooth.
- **Wi-Fi Signal**: Used to detect Wi-Fi signal strength.
- **Bluetooth**: Lock the Bluetooth of the device for security.
- **Scene:** Switch the scene and set the corresponding work mode.
- **SOC Limit**: Set the maximum SOC and minimum SOC.
- **Battery:** Show the battery brand and the SOH.

6. Manage Your Information (*Remote Mode*)

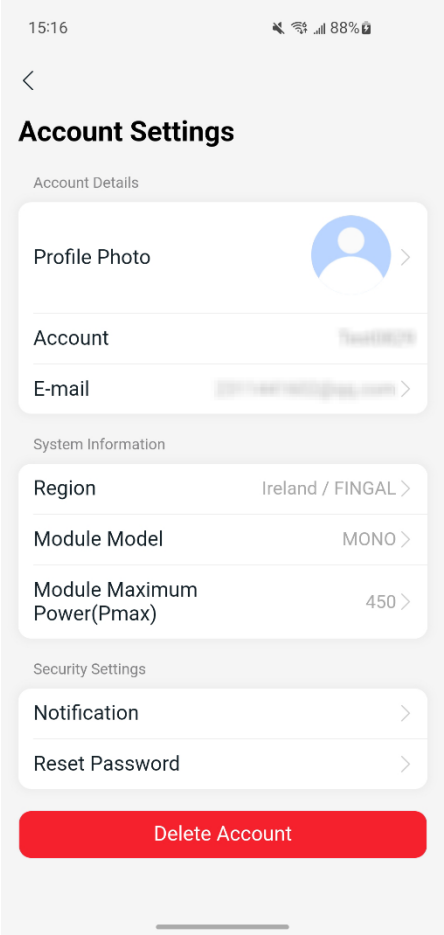


In this page, you can get the account and APP information, and you can also reset the account information.

- **Account Card**: View the account information and reset it
- **System Picture**: System pictures can be uploaded
- **Language**: Change the APP language
- **About**: Get the APP information
- **Logout**: Logout from APP

6. Manage Your Information (*Remote Mode*)

6.1 Modify Account Information (Remote Mode)



In this page, you can view the account information and reset it.

- **Account Details**: Include the account profile photo, name and email
- **System Information**: Include the region, module model and module maximum power (Pmax) , and click to edit
- **Security Settings**: Change the email notification or reset password
- **Delete Account**: Delete account if no longer required

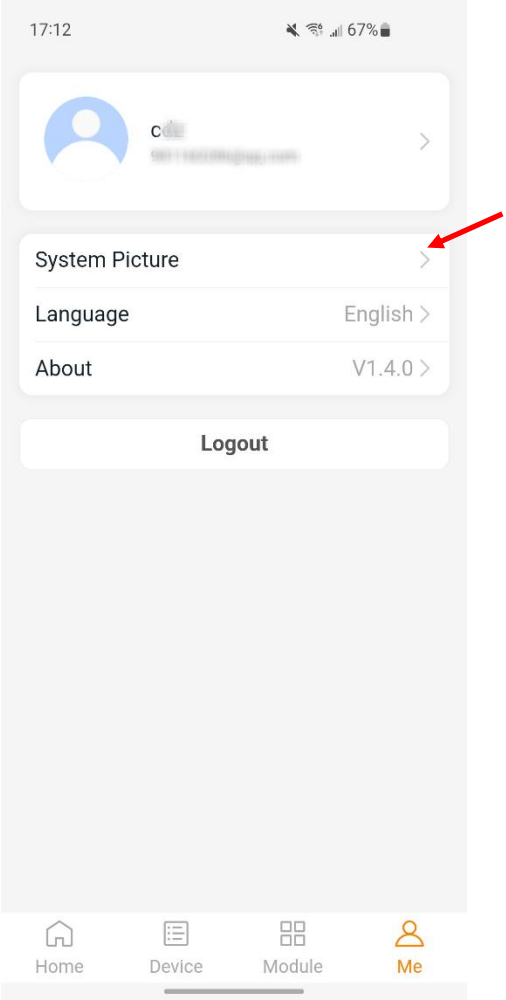
Note

You can enable or disable the function “Allow APsystems to Send New Productions, Services, Meetings and Marketing News” as your choice.

6. Manage Your Information (*Remote Mode*)

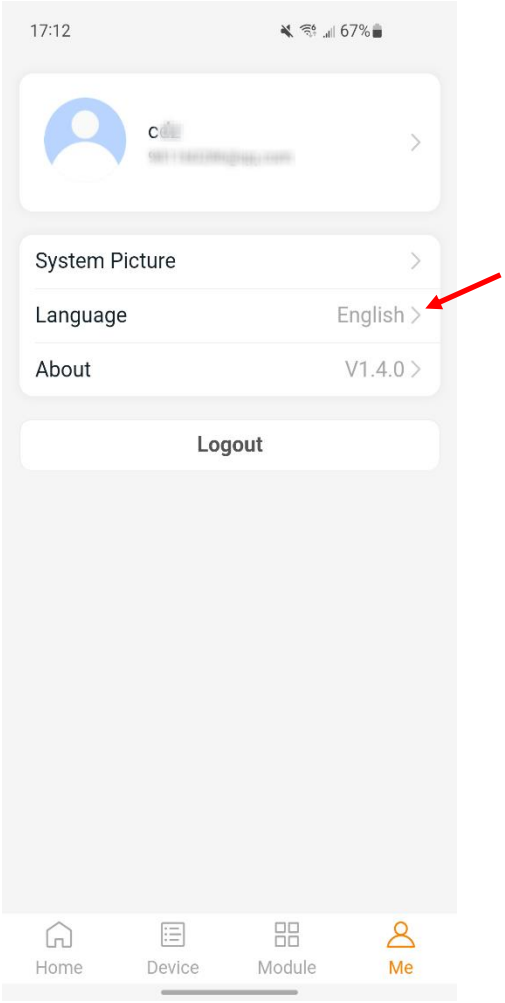
6.2 System Picture (Remote Mode)

System pictures can be uploaded.



6. Manage Your Information (*Remote Mode*)

6.3 Change APP Language (Remote Mode)



Note

APP supports English, 中文, Deutsch, Français, Español, Nederlands, Polska, Português, Italianno, so far, using the system language of the phone as its default language. If the system language is not included within these 9 languages, Deutsch is used as default.